

CONTENTS OF VOLUME 112

Vol. 112C, No. 1

M. G. Barron, H. Galbraith and D. Beltman 1 Comparative reproductive and developmental toxicology of PCBs in birds

S. Suzuki, S. Takamura, J. Yoshida, Y. Shinzawa, O. Niwa and R. Tamatani 15 Comparison of gentamicin nephrotoxicity between rats and mice

C. Gazzola 29 The effect of the α_2 -adrenoceptor agonist, guanfacin, on energy expenditure, intake and deposition in rats

W. Liebrich, A. C. Brown and D. P. Botes 35 Cadmium-binding proteins from a tunicate, *Pyura stolonifera*

S. B. Jones and L. B. King 43 Muscarinic cholinergic receptors in brain and atrial membranes of adult brook trout (*Salvelinus fontinalis*) measured by radioligand binding techniques

S-M. Chan 51 Possible roles of 20-hydroxyecdysone in the control of ovary maturation in the white shrimp *penaeus vannamei* (crustacea: decapoda)

T. M. Fonovich de Schroeder and A. M. Pechén de D'angelo 61 Dieldrin modifies the hydrolysis of PIP₂ and decreases the fertilization rate in *Bufo arenarum* oocytes

S. Duquesne, A. E. Flowers and J. C. Coll 69 Preliminary evidence for a metallothionein-like heavy metal-binding protein in the tropical marine bivalve *Tridacna crocea*

S. Fasano, M. D'antonio, P. Chieffi, G. Cobellis and R. Pierantoni 79 Chicken GnRH-II and salmon GnRH effects on plasma and testicular androgen concentrations in the male frog, *Rana esculenta*, during the annual reproductive cycle

C. Bischof 87 Effects of heavy metal stress on carbohydrate and lipid concentrations in the haemolymph and total body tissue of parasitized *Lymantria dispar* l. larvae (lepidoptera)

C. L. Atanassov, H.-U. Naegeli, G. Zenke, C. Schneider, L. I. Kramarova, G. E. Bronnikov and M. H. V. Van Regenmortel 93 Anti-lymphoproliferative activity of brown adipose tissue of hibernating ground squirrels is mainly caused by AMP

Vol. 112C, No. 2

T. Asano, K-I. Otsuguro, T. Ohta, T. Sugawara, S. Ito and Y. Nakazato 101 Characteristics of ATP-induced catecholamine secretion from adrenal chromaffin cells of the guinea pig

K. Maruyama, N. Kanemaki and J. D. May 109 Thyroid hormones on embryo development and appearance of myosin heavy chain isoforms in turkeys (*Meleagris gallopavo*)

A. Morello, M. Pavani, J. A. Garbarino, M. C. Chamy, C. Frey, J. Mancilla, A. Guerrero, Y. Repetto and J. Ferreira 119 Effects and mode of action of 1,4-naphthoquinones isolated from *Calceolaria sessilis* on tumoral cells and *Trypanosoma parasites*

S. Morris and T. Edwards 129 Control of osmoregulation via regulation of Na^+/K^+ -ATPase activity in the amphibious purple shore crab *Leptograpsus variegatus*

S. Nakashima, T. Mizutani, Y. Nakamura, S. O. Takemura, M. Nakamura, H. Miyata, Y. Katagiri and Y. Nozawa 137 Effects of selective phosphodiesterase type IV inhibitor, roliplam, on signal transducing phospholipases in neutrophil: Inhibition of phospholipases A₂, D but not C

N. Ohno, G. Zhang, L. Xue, Y. Yamamoto, M. Itoh and H. Suzuki 145 Excitation and inhibition by cisapride of spontaneous and evoked electrical responses in smooth muscles of guinea pig stomach

R. Mishra and S. P. Shukla 153 Effects of endosulfan on bioenergetic properties of skeletal muscle mitochondria from the freshwater catfish (*Clarias batrachus*)

F. Ushio, E. Antignac, M. Fukuhara and M. Kimura 163 Differential induction of cytochrome P-450 isoenzymes by rifampicin in the Chinese hamster, *Cricetus griseus*

M. E. McMaster, G. J. Van Der Kraak and K. R. Munkittrick 169 Exposure to bleached kraft pulp mill effluent reduces the steroid biosynthetic capacity of white sucker ovarian follicles

D. Schlenk, L. Peters, S. Shehin-Johnson, R. N. Hines and D. R. Livingstone 179 Differential expression and activity of flavin-containing monooxygenases in euryhaline and stenohaline flatfishes indicates potential osmoregulatory role

F. Journé, R. Wattiez, C. Severyns, D. Nonclercq, G. Toubeau, J-A. Heuson-Stiennon and P. Falmagne 187 Transforming growth factor- α and epidermal growth factor in hamster tissues: Biochemical and immunohistochemical studies

D. L. Aminin, I. G. Agafonova and S. N. Fedorov 201 Biological activity of disulfated polyhydroxysteroids from the pacific brittle star *Ophiopholis aculeata*

A. K. Singh 205 Carbachol-regulation of the expression of α_{i1} -subunit of G_i and inositol-[1,4,5]-trisphosphate receptor in brain samples obtained from neonatal and adult rats

J. Leiro, M. I. G. Siso, M. Ortega, M. T. Santamarina and M. L. Sanmartin 215 A factorial experimental design for investigation of the effects of temperature, incubation time, and pathogen-to-phagocyte ratio on *in vitro* phagocytosis by turbot adherent cells

P. Canals, M. A. Gallardo and J. Sanchez 221 Effects of insulin on the uptake of amino acids by hepatocytes and red blood cells from trout (*Salmo trutta*) are opposite

M. Vessel and M. Yazdanian 229 Comparison of the effects of an aqueous extract of *Physalis alkekengi* fruits and/or various doses of 17- β -estradiol on rat estrous cycle and uterine glucose 6-phosphate dehydrogenase activity

K. Maruyama, N. Kanemaki and J. D. May 237 Thyroid influence on sequential appearance of myosin heavy chain isoforms and muscle growth in growing male turkeys (*Meleagris gallopavo*)

E. K. Asem and M. D. Conkright 247 Role of progesterone in luteinizing hormone induced fibronectin production and deposition by chicken granulosa cells in vitro

Vol. 112C, No. 3

A-F. Aubry, N. Markoglou and A. McCann 257 Comparison of drug binding interactions on human, rat, and rabbit serum albumin using high-performance displacement chromatography

| | | |
|---|-----|---|
| D. G. Drescher, K. M. Khan, G. E. Green, B. J. Morley, K. W. Beisel, H. Kaul, D. Gordon, A. K. Gupta, M. J. Drescher and R. L. Barreto | 267 | Analysis of nicotinic acetylcholine receptor subunits in the cochlea of the mouse |
| L. Milakofsky, A. Epple, B. Nibbio, B. Gower and M. H. Stetson | 275 | Release of amino acids and related compounds from the adrenal equivalent and caudal vein of the eel <i>in vitro</i> |
| E. L. Cooper, V. Arizza, M. Cammarata, L. Pellerito and N. Parrinello | 285 | Tributyltin affects phagocytic activity of <i>Ciona intestinalis</i> hemocytes |
| J. Ortel | 291 | Changes in protein content and free amino acid composition in metal-contaminated gypsy moth larvae (<i>Lymantria dispar</i> L., Lymantriidae, Lepidoptera) |
| J. E. Weinstein | 299 | Seasonal responses of the mixed-function oxygenase system in the American oyster, <i>Crassostrea virginica</i> (Gmelin 1791), to urban-derived polycyclic aromatic hydrocarbons |
| M. S. Parihar and A. K. Dubey | 309 | Lipid peroxidation and ascorbic acid status in respiratory organs of male and female freshwater catfish <i>Heteropneustes fossilis</i> exposed to temperature increase |
| K. Sato, Y. Akiba, S. Kimura and M. Horiguchi | 315 | Species differences between chicks and rats in inhibition of lipoprotein hydrolysis by Triton WR-1339 |
| Z. Naydenova, K. Grancharov, M. Shopova and E. Golovinsky | 321 | Inhibition of UDP-glucuronyltransferase activity in rat liver microsomes by pyrimidine derivatives |
| R. Ramesh, J. A. Proudman and W. J. Kuenzel | 327 | Changes in pituitary somatotrophs and lactotrophs associated with ovarian regression in the turkey hen (<i>Meleagris gallopavo</i>) |
| B. M. Sanders, J. Nguyen, L. S. Martin, S. R. Howe and S. Coventry | 335 | Induction and subcellular localization of two major stress proteins in response to copper in the fathead minnow <i>Pimephales promelas</i> |
| T. M. John, J. C. George and G. M. Brown | 345 | Effects of exogenous arginine vasotocin on circulating levels of thyroid hormones and melatonin in the pigeon, <i>Columba livia</i> |
| S. S. Katyare and R. R. Rajan | 353 | Effect of long-term <i>in vivo</i> treatment with imipramine on the oxidative energy metabolism in rat brain mitochondria |
| M. Kurata, N. Ishizuka, M. Matsuzawa, K. Haruta and K. Takeda | 359 | A comparative study of whole-blood platelet aggregation in laboratory animals: Its species differences and comparison with turbidimetric method |

I Volume Contents, Subject and Author Index for Vol. 111C

XI Volume Contents, Subject and Author Index for Vol. 112C

